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Abstract:

PROBLEM TO BE SOLVED: To solve a problem that a spare area is densely arranged to suppress increase of response delay time after a reassignment processing, however, on the other hand, use efficiency of a disk is lowered when the spare area is densely arranged, with respect to a disk device to perform the reassignment processing when an unrecoverable defect is generated on a recording surface of the disk.

SOLUTION: The recording surface of plural disks are divided into plural cylinder groups consisting of plural cylinders respectively and spare tracks are assigned to each of the divided cylinder groups in by one. When the spare track are assigned in this way, head seek quantity to be required for accessing the spare area is reduced by accessing the spare area on other recording surface from a defective sector by using switching of heads and the spare area is accessed in shorter time. Thus, increase of the response delay time to the access to an alternative sector is reduced, consequently, capacity of the spare track is reduced and the use efficiency of the disk is enhanced.

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(54) DISK DEVICE AND REASSIGNING METHOD

(57) Abstract:

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